Michigan Department of Health and Human Services (MDHHS)

JORDAN BAILEY, PHD

The Role of MDHHS

- Evaluate potential exposure to chemicals in the environment
- ▶ Determine if harm may occur
- ▶ Provide recommendations
- Provide technical support to the local health department
- ▶ Outreach to public, healthcare, others

Associated Health Issues (PFOS and PFOA) High-de

High-dose exposures in people are linked to:

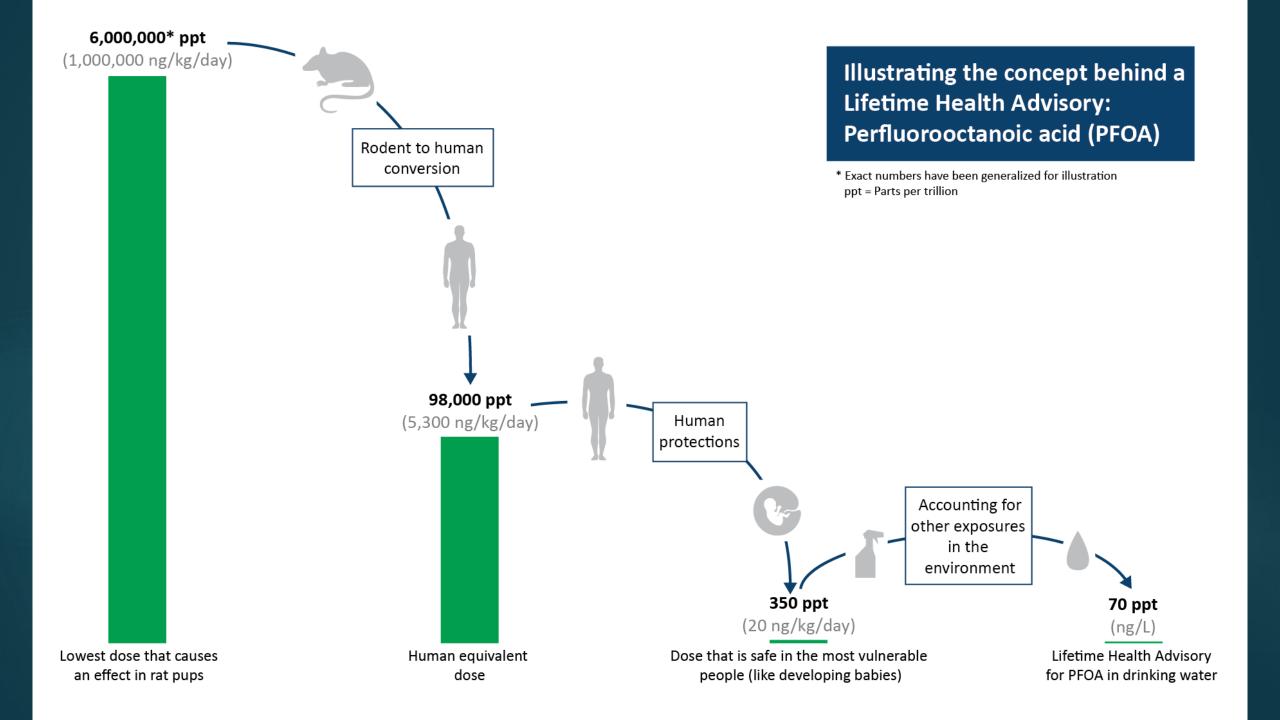
- ▶ Higher cholesterol
- ▶ Thyroid disease (PFOA)
- ▶ Ulcerative colitis (PFOA)
- Testicular and kidney cancer (PFOA)
- Changes to the immune system
- ▶ Preeclampsia (PFOA)

High-dose studies In laboratory animals have shown:

- Developmental effects
 - Changed bones in the paw
 - Lowered pup birth weight
 - Sooner puberty in male pups
- Immune system dysfunction
- Changes in liver and kidney weight

EPA's Health Advisory Levels

- Based on reference doses (RfD) derived from developmental toxicity study in rodents
- Lifetime Health Advisory
 - ▶ PFOA + PFOS = 70 ppt (ng/L)
 - Short-term and long-term exposure
- Protects fetus and others against noncancer health issues (also protective against development of cancer)



Thank you